AMENDMENTS TO THE CLAIMS

Please enter the cancellation of claims 1-2, 5-11, and 26-31 without prejudice, as set forth in the unentered Amendment and Response under 37 C.F.R. § 1.116, which was previously filed on December 19, 2005 ("the December 19, 2005 Amendment").

Please enter the amendments to claims 47, 48 and 50 and add new claims 66-68 as set forth in the unentered December 19, 2005 Amendment. A detailed listing of all claims in the application is presented below. This listing of claims replaces all prior versions and listings of the claims in the application.

Listing of Claims:

1-46 (canceled).

47 (previously presented). A recombinant DNA comprising said DNA selected from the group consisting of

- a) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 3 wherein the protein elicits an immune response against *E. canis*;
- b) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 5 wherein the protein elicits an immune response against *E. canis*;
- c) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ.ID. NO. 7 wherein the protein elicits an immune response against *E. canis*;
- d) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 9 wherein the protein elicits an immune response against *E. canis*; and

- e) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 11 wherein the protein elicits an immune response against *E. canis*.
- 48 (previously presented). A vector capable of expressing a recombinant DNA comprising:
 - a) a recombinant DNA inserted into said vector such that a recombinant protein is expressed when said vector is provided in an appropriate host wherein said DNA is selected from the group consisting of:
 - i) a recombinant DNA sequence that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 3 wherein the protein elicits an immune response against *E. canis*;
 - ii) a recombinant DNA sequence that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 5 wherein the protein elicits an immune response against *E. canis*;
 - iii) a recombinant DNA sequence that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 7 wherein the protein elicits an immune response against *E. canis*;
 - iv) a recombinant DNA sequence that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 9 wherein the protein elicits an immune response against *E. canis*; and
 - v) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 11 wherein the protein elicits an immune response against *E. canis*.
- 49 (original). The recombinant DNA of claim 47 wherein said DNA encodes at least one immunogenic epitope.
- 50 (previously presented). A vector capable of expressing a recombinant DNA comprising:

- a) a recombinant DNA inserted into said vector such that a recombinant protein is expressed when said vector is provided in an appropriate host wherein said DNA is selected from the group consisting of:
 - i) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 3 wherein the protein elicits an immune response against *E. canis*;
 - ii) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 5 wherein the protein elicits an immune response against *E. canis*;
 - iii) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 7 wherein the protein elicits an immune response against *E. canis*;
 - iv) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 9 wherein the protein elicits an immune response against *E. canis*; and
 - v) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 11 wherein the protein elicits an immune response against *E. canis*.

51-65 (canceled).

66 (previously presented). The recombinant DNA of claim 47 comprising said DNA selected from the group consisting of:

b) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 5 wherein the protein elicits an immune response against *E. canis*;

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- c) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 7 wherein the protein elicits an immune response against *E. canis*; and
- d) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 9 wherein the protein elicits an immune response against *E. canis*.
- 67 (previously presented). The vector of claim 48 wherein said DNA is selected from the group consisting of:
 - ii) a recombinant DNA sequence that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 5 wherein the protein elicits an immune response against *E. canis*;
 - iii) a recombinant DNA sequence that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 7 wherein the protein elicits an immune response against *E. canis*; and
 - iv) a recombinant DNA sequence that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 9 wherein the protein elicits an immune response against *E. canis*.
- 68 (previously presented). The vector of claim 50 wherein said DNA is selected from the group consisting of:
 - ii) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 5 wherein the protein elicits an immune response against *E. canis*;
 - iii) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 7 wherein the protein elicits an immune response against *E. canis*; and

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iv) a recombinant DNA that encodes a protein having an amino acid sequence as shown in SEQ. ID. NO. 9 wherein the protein elicits an immune response against *E. canis*.